

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00629\_M-40L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C1216XT-40L-xxK-ND-EX-TCY-NL  
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Narrow Beam  
[OTHER] No Lens  
[OTHER] 19.9 Degree Beam Angle  
[OTHER] Aimed at 0 Degrees  
[LAMPCAT] N/A, 19mm LES  
[LAMP] N/A, 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52581	54950	55291
55	20899	19131	17410
65	3528	4055	3467
75	3900	4467	4118
85	5218	5797	5925

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401
5	9211.138	9456.145	9274.088	9326.806	8991.784	8715.105	8637.608	8185.223	8224.457	7900.781
10	5626.017	5949.533	5724.899	5829.113	5416.634	5088.959	4994.728	4493.264	4557.397	4250.145
15	2761.541	2940.451	2808.536	2896.424	2642.009	2483.281	2432.397	2200.849	2229.179	2098.348
20	1657.556	1706.734	1670.739	1698.030	1612.485	1566.741	1552.359	1501.234	1506.890	1480.223
25	1403.653	1419.464	1413.268	1414.935	1400.566	1381.048	1371.338	1360.447	1358.339	1361.930
30	1327.054	1347.870	1344.619	1344.064	1335.812	1322.518	1309.733	1291.191	1294.326	1298.059
35	1231.072	1260.572	1256.293	1265.142	1232.381	1205.639	1183.461	1127.543	1133.071	1096.053
40	905.405	965.270	951.579	982.967	924.358	855.034	819.869	734.996	713.347	667.876
45	530.497	565.913	554.397	582.095	557.843	515.938	492.619	448.609	427.606	418.862
50	353.733	359.144	333.162	359.259	337.936	326.826	326.581	317.714	315.002	319.629
55	171.035	178.536	156.564	160.399	142.486	136.632	143.504	137.926	141.576	140.776
60	44.792	51.997	47.159	45.051	38.387	40.843	42.123	44.025	45.993	44.229
65	21.276	18.842	24.453	20.797	20.904	24.075	28.152	31.777	27.393	29.260
70	15.269	11.846	18.595	17.465	15.553	27.329	28.997	26.810	26.273	27.001
75	14.402	15.001	16.498	15.275	15.206	26.631	30.226	27.641	28.370	33.266
80	14.126	12.756	14.109	12.720	11.995	27.185	28.155	30.633	27.777	26.541
85	6.489	7.831	7.209	7.991	7.368	23.534	21.344	23.467	21.977	21.370
90	1.874	1.074	2.335	1.139	1.860	14.704	4.492	12.621	4.624	15.065
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401	10445.401
5	8114.079	7959.451	8303.232	8737.847	8813.902	9259.949	9211.138
10	4462.087	4326.725	4668.057	5096.735	5192.900	5691.001	5626.017
15	2186.328	2118.599	2280.151	2479.876	2536.900	2802.093	2761.541
20	1497.152	1486.452	1525.139	1575.049	1586.474	1665.491	1657.556
25	1363.362	1368.902	1372.285	1385.915	1383.075	1403.443	1403.653
30	1305.288	1305.488	1312.395	1317.876	1309.571	1322.489	1327.054
35	1130.732	1109.345	1165.993	1190.832	1192.001	1234.349	1231.072
40	690.163	680.316	732.864	792.155	819.047	898.534	905.405
45	414.469	405.166	423.806	454.567	476.165	513.233	530.497

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES**

**CANDELA TABULATION - (Cont.)**

50	321.343	309.997	328.139	335.617	331.357	359.610	353.733
55	147.678	143.813	154.303	161.693	148.464	175.667	171.035
60	47.789	40.463	44.006	40.769	38.573	45.934	44.792
65	29.859	27.663	31.129	16.528	18.845	18.398	21.276
70	27.517	24.301	23.968	15.674	17.181	15.739	15.269
75	28.232	25.754	28.112	12.206	14.123	14.000	14.402
80	25.763	27.433	27.665	10.523	11.136	12.376	14.126
85	18.914	20.464	22.568	6.663	7.257	7.665	6.489
90	6.008	14.542	12.181	0.599	2.576	1.153	1.874
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1507.11	N.A.	43.20
0-30	2160.24	N.A.	61.90
0-40	2864.56	N.A.	82.10
0-60	3423.34	N.A.	98.10
0-80	3473.78	N.A.	99.50
0-90	3488.8	N.A.	100.00
10-90	2767.03	N.A.	79.30
20-40	1357.45	N.A.	38.90
20-50	1765.15	N.A.	50.60
40-70	586.90	N.A.	16.80
60-80	50.44	N.A.	1.40
70-80	22.32	N.A.	0.60
80-90	15.02	N.A.	0.40
90-110	1.66	N.A.	0.00
90-120	1.66	N.A.	0.00
90-130	1.66	N.A.	0.00
90-150	1.66	N.A.	0.00
90-180	1.66	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3490.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	721.77
10-20	785.35
20-30	653.13
30-40	704.32
40-50	407.70
50-60	151.08
60-70	28.12
70-80	22.32
80-90	15.02
90-100	1.66
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES

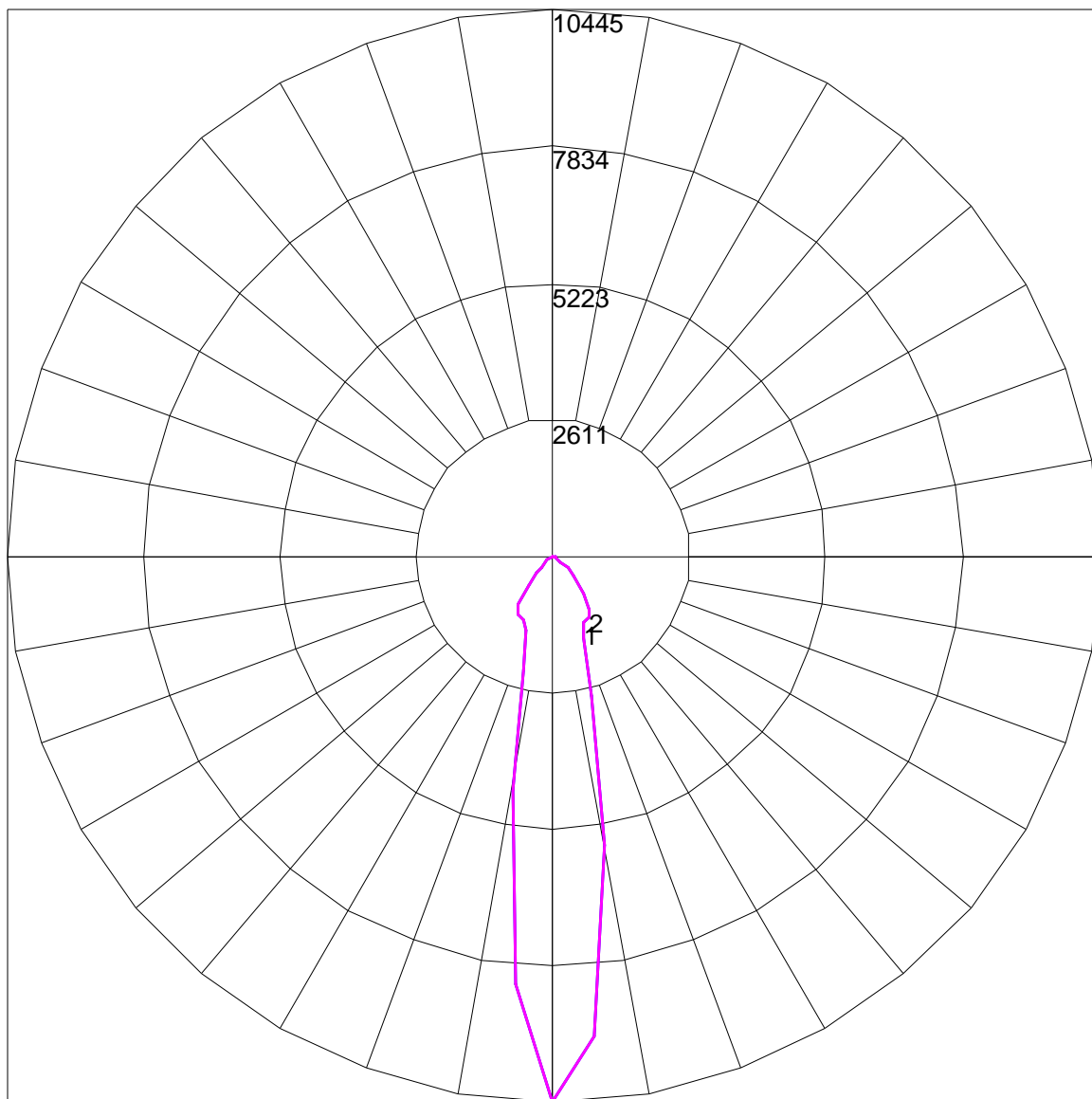
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-40LXXK-NDEX-TCY-NLXXMW.IES

POLAR GRAPH



Maximum Candela = 10445.401 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)